

Notice of Allowability

Application No.

10/787,084

Applicant(s)

MORI, MAKIKO

Examiner

Kevin M. Nguyen

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the filing date 2/27/2004.
2. ☒ The allowed claim(s) is/are 1-19.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

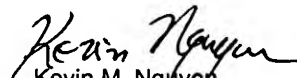
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date See Continuation Sheet
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


Kevin M. Nguyen
Patent Examiner
Art unit 2629

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 7/19/04,9/9/05,4/25/07.

Drawings

1. The drawings were received on 6/4/2004. These drawings are acknowledged.

REASONS FOR ALLOWANCE

2. Claims 1-19 are allowed.
3. The following is an examiner's statement of reasons for allowance:

The instant application is directed to a nonobvious improvement over the invention described in Pat. No. 6,982,704 to Aoki et al., Pat. No. 6,570,611 to Satou et al., and Pat. No. 5,995,072 to Nakajima. The improvement comprises an image display device comprising:

"an adjusting value outputting circuit (6) that applies a conversion having characteristics being inverse with relative to a converting characteristics of said non-linear converting circuit (3) or conversion having characteristics approximate to the inverse characteristics, to said brightness refraining value to output said adjusting value". This patentable distinction is included in the independent claims 1 and 6.

"[W]herein at first value which is the γ^{th} power root to a calculated value G that is sequentially up-to-dated or a second value approximate to the first value is used as said variable coefficient, and regarding as said calculated value G, if said display brightness characteristics value is defined by B, a calculated value before updating is defined by G_0 , and a reference value that is compared with said display brightness characteristics value is defined by B_0 , then a relation of $G=G_0 \times B_0/B$ is satisfied". This patentable distinction is included in the independent claim 2.

"[W]herein said variable coefficient is a first value which is the γ^{th} power root to a calculated value G that is sequentially up-to-dated or a second value being approximate to the first value, or a value obtained by modifying a high frequency component of a first value which is the γ^{th} power root of the calculated value G that is sequentially up-to-dated or the second value being approximate to the first value, and wherein said calculated value G is any of (i) said display brightness characteristics value, or (ii) a value of $G_0 \times B_0/B$ if a value obtained by modifying a high frequency component of a plurality of said display brightness characteristics value that is sequentially detected from the input signals is defined by B and a calculated a value before updating is defined by G_0 and a reference value that is compared with said display brightness characteristics value is defined by B_0 or (iii) a value obtained by modifying a high frequency component of $G_0 \times B_0/B$ to be sequentially obtained or (iv) a value of $K_0' B_0/B$ if a variable coefficient before updating is defined by K_0 ". This patentable distinction is included in the independent claim 4.

"[A]n adjusting value outputting circuit (6) that outputs said adjusting value based on (i) a value obtained by applying a first conversion having characteristic being inversed with relative to conversion characteristics of said non-linear converting circuit (3) or a conversion having characteristic being approximate to the inverse characteristics to said brightness refraining value, and (ii) a brightness control value relating to an image quality adjustment". This patentable distinction is included in the independent claim 7.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN M. NGUYEN whose telephone number is 571-272-7697. The examiner can normally be reached on MON-THU from 8:00-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, a supervisor RICHARD A. HJERPE can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the Patent Application Information Retrieval system, see <http://portal.uspto.gov/external/portal/pair>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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KMN
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